## **Amendments to the Claims:**

Please amend claim 47 as follows.

1-31. (Cancelled)

- 32. (Original) A planarizing machine for mechanical and/or chemical-mechanical planarization of microelectronic substrates, comprising:
  - a table having a support surface;
  - a fixed-abrasive planarizing pad on the support surface of the table, the fixedabrasive pad having a planarizing medium with an abrasive planarizing surface, the planarizing medium comprising a binder and a first plurality of abrasive particles fixedly attached to the binder, wherein at least a share of the first abrasive particles are exposed at the planarizing surface;
  - a carrier assembly having a head for holding a substrate assembly and a drive mechanism for moving the head relative to the planarizing pad;
  - a first supply of an abrasive first planarizing solution coupled to a dispenser positionable over the planarizing pad, wherein the first planarizing solution has a liquid and a second plurality of abrasive particles suspended in the liquid;
  - a second supply of a second planarizing solution coupled to the dispenser, wherein the second planarizing solution is a non-abrasive solution without abrasive particles; and
  - a computer operatively coupled to the first supply of the first planarizing solution and the second supply of the second planarizing solution, the computer having a computer-readable medium containing a computer-readable program code that causes the computer to (a) effect a first flow of the first planarizing solution to the dispenser at a first stage of a planarizing cycle of a microelectronic substrate, and (b) effect a second flow of the second planarizing solution to the dispenser at a second stage of the planarizing cycle after the first stage.

- 33. (Original) The planarizing machine of claim 32 wherein the computer-readable program code comprises causing the computer to open a first valve coupled to the first supply during the first stage to dispense a fixed volume of the first planarizing solution onto the planarizing pad before rubbing the microelectronic substrate against the planarizing pad.
- 34. (Original) The planarizing machine of claim 32 wherein the computerreadable program code comprises causing the computer to open a first valve coupled to the first supply during the first stage to effect the flow of the first planarizing solution onto the planarizing pad and then to close the first valve to terminate the flow of the first solution before rubbing the microelectronic substrate against the planarizing pad.
- 35. (Original) The planarizing machine of claim 32 wherein the computerreadable program code comprises causing the computer to open a first valve coupled to the first supply during the first stage to effect the flow of the first planarizing solution onto the planarizing pad while rubbing the microelectronic substrate against the planarizing pad before the second stage.
  - 36. (Original) The planarizing machine of claim 32 wherein:
  - the computer-readable program code comprises causing the computer to open a first valve coupled to the first supply during the first stage to effect the flow of the first planarizing solution and then to close the first valve to terminate the flow of the first planarizing solution; and
  - the computer-readable program code comprises causing the computer to open a second valve coupled to the second supply during the second stage to effect the flow of the second planarizing solution after terminating the flow of the first planarizing solution.

- 37. (Original) The planarizing machine of claim 32 wherein:
- the computer-readable program code comprises causing the computer to open a first valve coupled to the first supply during the first stage to effect the flow of the first planarizing solution; and
- the computer-readable program code comprises causing the computer to open a second valve coupled to the second supply during the second stage to subsequently effect the flow of the second planarizing solution while continuing the flow of the first planarizing solution to deposit a combination of the first and second planarizing solutions on the planarizing pad.
- 38. (Original) The planarizing machine of claim 32 wherein:
- the computer-readable program code comprises causing the computer to open a second valve coupled to the second supply during the second stage to effect the flow of the second planarizing solution after terminating the flow of the first planarizing solution during an opening phase of the second stage; and
- the computer-readable program code comprises causing the computer to reopen the first valve to re-effect the flow of the first planarizing solution upon detecting a surface condition of the substrate at a subsequent phase of the second stage of the planarizing cycle.
- 39. (Original) The planarizing machine of claim 32 wherein the first abrasive particles in the planarizing medium and the second abrasive particles in the first planarizing solution have the same composition.
- 40. (Original) The planarizing machine of claim 32 wherein the first abrasive particles in the planarizing medium have a first composition and the second abrasive particles in the first planarizing solution have a second composition different than the first composition.

- 41. (Original) The planarizing machine of claim 32 wherein the first abrasive particles in the planarizing medium have a first size and the second abrasive particles in the first planarizing solution have a second size different than the first size.
- 42. (Original) The planarizing machine of claim 32 wherein the first abrasive particles in the planarizing medium have a first shape and the second abrasive particles in the first planarizing solution have a second shape different than the first shape.
- 43. (Original) A planarizing machine for mechanical and/or chemical-mechanical planarization of microelectronic substrates, comprising:
  - a table having a support surface;
  - a fixed-abrasive planarizing pad on the support surface of the table, the fixedabrasive pad having a planarizing medium with an abrasive planarizing surface, the planarizing medium comprising a binder and a first plurality of abrasive particles fixedly attached to the binder, wherein at least a share of the first abrasive particles are exposed at the planarizing surface;
  - a carrier assembly having a head for holding a substrate assembly and a drive mechanism for moving the head relative to the planarizing pad;
  - a first supply of an abrasive first planarizing solution coupled to a dispenser positionable over the planarizing pad, wherein the first planarizing solution has a liquid and a second plurality of abrasive particles suspended in the liquid;
  - a second supply of a second planarizing solution coupled to the dispenser, wherein the second planarizing solution is a non-abrasive solution without abrasive particles; and
  - a computer operatively coupled to the first supply of the first planarizing solution and the second supply of the second planarizing solution, the computer having a computer-readable medium containing a computer-readable program code that causes the computer to effect (a) a flow of the first

planarizing solution to the dispenser at a first stage of a planarizing cycle of a microelectronic substrate, and (b) a reduction of a concentration of the first abrasive particles on the planarizing pad during a second stage of the planarizing cycle after the first stage.

- 44. (Original) The planarizing machine of claim 43 wherein the computerreadable program code comprises causing the computer to effectuate a flow of a nonabrasive second planarizing solution without abrasive particles onto the planarizing pad during the second stage of the planarizing cycle.
- 45. (Original) The planarizing machine of claim 44 wherein the computerreadable program code comprises causing the computer to terminate the flow of the first planarizing solution at the end of the first stage before effectuating the flow of the second planarizing solution at the commencement of the second stage.
- 46. (Original) The planarizing machine of claim 44 wherein the computerreadable program code comprises causing the computer to continuously maintain the flow of the first planarizing solution during the first and second stages of the planarizing cycle.
- 47. (Currently amended) A planarizing machine for mechanical and/or chemical-mechanical planarization of microelectronic substrates, comprising:
  - a table having a support surface;
  - a fixed-abrasive planarizing pad on the support surface of the table, the fixedabrasive pad having a planarizing medium with an abrasive planarizing surface, the planarizing medium comprising a binder and a first plurality of abrasive particles fixedly attached to the binder, wherein at least a share of the first abrasive particles are exposed at the planarizing surface;
  - a carrier assembly having a head for holding a substrate assembly and a drive mechanism for moving the head relative to the planarizing pad;

- a first supply of an abrasive first planarizing solution coupled to a dispenser positionable over the planarizing pad, wherein the first planarizing solution has a liquid and a second plurality of abrasive particles suspended in the liquid;
- a second supply of a second planarizing solution coupled to the dispenser, wherein the second planarizing solution is a non-abrasive solution without abrasive particles; and
- a computer operatively coupled to the first supply of the first planarizing solution and the second supply of the second planarizing solution, the computer having a computer-readable medium containing a computer-readable program code that causes the computer to effect a method comprising—

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  - covering at least a portion of the planarizing surface with the abrasive first planarizing solution during a first stage of a planarizing cycle of a microelectronic substrate;
  - pressing the microelectronic substrate against the first abrasive particles at the planarizing surface and the second abrasive particles suspended in the first planarizing solution, and moving the microelectronic substrate and/or the planarizing pad to rub the microelectronic substrate against the planarizing surface; and
  - adjusting a concentration of the second abrasive particles on the planarizing surface at a second stage of the planarizing cycle after the first stage.
- 48. (Previously presented) The planarizing machine of claim 47 wherein the computer-readable program code further comprises causing the computer to effectuate a flow of the non-abrasive second planarizing solution without abrasive particles onto the planarizing pad during the second stage of the planarizing cycle.

Attorney Docket No. 108298508US1 Disclosure No. 99-1069.01/US

49. (Previously presented) The planarizing machine of claim 48 wherein the computer-readable program code further comprises causing the computer to terminate the flow of the first planarizing solution at the end of the first stage of the planarizing cycle before effectuating the flow of the second planarizing solution at the commencement of the second stage of the planarizing cycle.

50. (Previously presented) The planarizing machine of claim 48 wherein the computer-readable program code further comprises causing the computer to continuously maintain the flow of the first planarizing solution during the first stage and the second stage of the planarizing cycle.